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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 60-216435

(43)Date of publication of application : 29.10.1985

(51)Int.Cl.

H01J 61/33

(21)Application number : 59-072201

(71)Applicant : SHARP CORP

(22)Date of filing : 10.04.1984

(72)Inventor : HAMADA HIROSHI

TAKATO YUTAKA

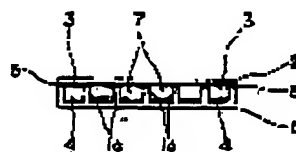
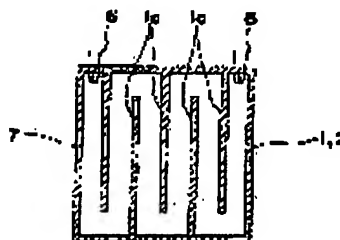
KIMURA TADASHI

(54) FLAT TYPE DISCHARGE TUBE

(57)Abstract:

PURPOSE: To obtain uniform light distribution and improve luminous efficiency of a flat type discharge tube by forming a meander type discharge path with interdigital separation plates.

CONSTITUTION: A meander type discharge path 7 is formed by attaching a rectangular box type glass mold 1 providing interdigital separation plates 1a where glass plate is heated and comb-like tooth are interleaved to the other side tooth by the molding and a rectangular molding plate 2 through a low melting point glass 5. A phosphor material 3 is provided to upper part of internal wall of discharge path 7, while an excited light reflection body 4 at the lower surface of internal wall, moreover a filament 6 is fused at both ends and thereby a flat type discharge tube can be formed. The luminous intensity is enhanced and uniform light distribution can be obtained by reducing thickness. This discharge tube is just suitable as the rear surface lighting source of a passive display element such as liquid crystal.



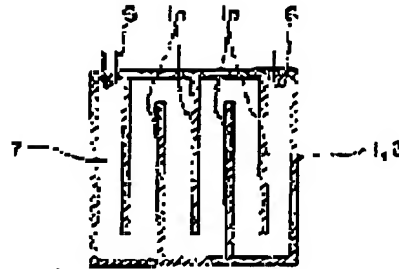
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第 1 図は本発明の一実施例の正面図である。
 第 2 図は上記実施例の側面図である。
 1、2...ガラス板部、 3...窓枠、
 4...窓枠固定部、 5...窓枠、
 6...窓枠、 7...窓枠。

第 1 図は本発明の一実施例の正面図である。
 第 2 図は上記実施例の側面図である。

1994-216456-130

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